M/41371-US = EP. 48309 (4)

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Antiskid brake control system - reduces hydraulic pressure available at brake when signal from wheel speed transducer indicates incipient skid conditions

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The major components of an anti-skid brake control system applied to a wheel include a wheel speed transducer which produces a sinusoidal signal having a frequency proportional to the speed. The signal is shaped in a squaring circuit and then applied to the anti-skid control system. The system monitors the wheel signal and when that signal indicates that the wheel is about to go into a skid due to excessive braking force the system generates a valve driver sgnal actuating the anti-skid valve and reducing the brake pressure and braking force.

The brake pressure in the line is the metered pressure determined by the driver using conventional hydraulic controls. So long as the wheel is not braked so severly as to go into a skid the full metered pressure is passed to the brake. However, if the metered pressure exceeds the skid threshold and drives the wheel into a skid, then the system causes the valve to reduce the brake pressure. (35pp)

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